

DERWENT-ACC-NO: 1999-153980

DERWENT-WEEK: 200565

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TITLE: Liquid crystal display with design variations

INVENTOR: AKIYAMA, T; IDE, M ; KANAKO, Y ; KANEKO, Y ; TOHYAMA, N

PATENT-ASSIGNEE: CITIZEN WATCH CO LTD[CITL] , CITIZEN TOKEI KK[CITL]

PRIORITY-DATA: 1997JP-0204417 (July 30, 1997)

PATENT-FAMILY:

PUB-NO IPC	PUB-DATE	LANGUAGE	PAGES	MAIN-
CN 1128382 C 001/1335	November 19, 2003	N/A	000	G02F
WO 9906877 A1	February 11, 1999	J	045	
AU 9884610 A 001/1335	February 22, 1999	N/A	000	G02F
EP 930522 A1	July 21, 1999	E	000	
JP 11510787 X 001/1335	October 19, 1999	N/A	000	G02F
CN 1236445 A	November 24, 1999	N/A	000	
KR 2000068650 A 001/1335	November 25, 2000	N/A	000	G02F
KR 295132 B	August 7, 2001	N/A	000	
US 6707515 B1 001/1335	March 16, 2004	N/A	000	G02F

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G02F 001/1347

DESIGNATED-STATES: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU
 CZ DE DK EE ES FI
 GB GE GH GM HU ID IL IS JP KE KG KR KZ LC LK LR LS LT LU LV MD MG
 MK MN MW MX
 NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US UZ VN YU
 ZW AT BE CH
 CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL OA PT SD
 SE SZ UG ZW
 DE FR GB NL

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-DATE
CN 1128382C	N/A	1998CN-0801088	July 30, 1998
WO 9906877A1	N/A	1998WO-JP03408	July 30, 1998
AU 9884610A	N/A	1998AU-0084610	July 30, 1998
AU 9884610A	Based on	WO <u>9906877</u>	N/A
EP 930522A1	N/A	1998EP-0935293	July 30, 1998
EP 930522A1	N/A	1998WO-JP03408	July 30, 1998
EP 930522A1	Based on	WO <u>9906877</u>	N/A
JP 11510787X	N/A	1998WO-JP03408	July 30, 1998
JP 11510787X	N/A	1999JP-0510787	July 30, 1998
JP 11510787X	Based on	WO <u>9906877</u>	N/A
CN 1236445A	N/A	1998CN-0801088	July 30, 1998
KR2000068650A	N/A	1998WO-JP03408	July 30, 1998
KR2000068650A	N/A	1999KR-0702664	March 27, 1999
KR2000068650A	Based on	WO <u>9906877</u>	N/A
KR 295132B	N/A	1999KR-0702664	March 27, 1999
KR 295132B	Previous Publ.	KR2000068650	N/A
US 6707515B1	N/A	1998WO-JP03408	July 30, 1998
US 6707515B1	N/A	1999US-0269301	March 29, 1999
US 6707515B1	Based on	WO <u>9906877</u>	N/A

INT-CL (IPC): G02F001/1335, G02F001/1347 , G04G009/00

ABSTRACTED-PUB-NO: WO 9906877A

BASIC-ABSTRACT:

NOVELTY - Each 1st and 2nd liquid crystal cell (16, 18) of the display has a

liquid crystal layer sealed in a gap between a pair of transparent substrates, each substrate having an electrode formed on each opposing inner surface. Polarizer plates (12, 14), respectively, absorb and reflect linear polarization with a plane of vibration perpendicular to the easy axis of transmission. Plates (12, 14) are located on the viewing side of the 1st cell (16) and on the side of the 2nd cell (18) opposite the viewing side, respectively.

USE - Liquid crystal display.

DESCRIPTION OF DRAWING(S) - The drawing shows a liquid crystal display

absorption type polarizer plate 12

reflection type polarizer plate 14

1st liquid crystal cell 16

2nd liquid crystal cell 18

CHOSEN-DRAWING: Dwg.1/18

TITLE-TERMS: LIQUID CRYSTAL DISPLAY DESIGN VARIATION

DERWENT-CLASS: P81 S04 U14

EPI-CODES: S04-B04A; U14-K01A1C;

SECONDARY-ACC-NO:

Non-CPI Secondary Accession Numbers: N1999-110946